

FILE

FirstEnergy

RECEIVED-DOCKETING DIV

76 South Main St.
Akron, Ohio 44308

21

2010 SEP -3 PM 2:50

1-800-646-0400

PUCO

September 2, 2010

Ms. Renee J. Jenkins
Director, Administration Department
Secretary to the Commission
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, OH 43215-3793

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10-1320 -EL-BNR

Dear Ms. Jenkins:

In accordance with Rule 4906-01-11 American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., transmits one (1) original and eleven (11) copies of the enclosed Construction Notice. In this project, ATSI is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

Please be advised of the following:

a) Name and address of the applicant:

American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308

b) Name of proposed facilities:

Bayshore Substation Expansion and 138 kV J-K Bus Tie Project

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.
technician DM Date Processed SEP 03 2010

Ms. Renee J. Jenkins/ Docketing

September 2, 2010

c) Location of proposed facilities:

The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

d) Description of proposed facilities:

ATSI is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The project will also reconfigure a small retention basin to accommodate the new fence line so the basin has the same capacity.

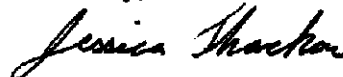
e) Applicant's representative:

Jessica Thacker, Associate Engineer
Energy Delivery Technical Services
FirstEnergy Service Company
76 South Main Street
Akron, OH 44308-1890

After docketing this filing, please return one time-stamped copy of the Construction Notice for our records to us in the enclosed envelope. We have provided a copy of this Construction Notice by certified mail, with return receipt requested, to officials of the political subdivisions immediately affected by the proposed project as listed in the attached Exhibit 1. Copies of the transmittal letters addressed to the local government representatives of the City of Oregon, Lucas County are enclosed for your file.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-5955.

Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachments

2010 SEP -3 PM 2: 50

1-800-646-0400

September 2, 2010

The Honorable Mike Seferian
Mayor, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

PUCO

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10-1320-EL-BNR

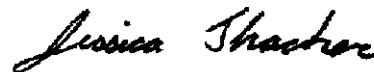
Dear Mayor Seferian,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

In accordance with the provisions of Ohio Administrative Code ("OAC") Rule 4906-1-01, this project falls within the Ohio Power Siting Board's requirements for a Construction Notice ("Notice"). Therefore, in compliance with OAC 4906-11-02 of the OPSB's Rules and Regulations, we have prepared and filed the attached Notice with the OPSB for their review and approval. The Notice contains a description of the Project and is provided for your information.

I'll be glad to answer any question concerning this matter. You can contact me at (330) 384-5955.

Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Mr. Clint Wasserman
President, City of Oregon City Council
5330 Seaman Road
Oregon, Ohio 43616

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- -EL-BNR

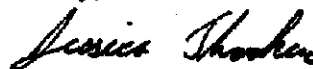
Dear Mr. Clint Wasserman,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Ms. Tina M. Evans
Clerk of Council, City of Oregon
City Council
5330 Seaman Road
Oregon, Ohio 43616

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- EL-BNR

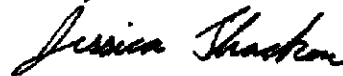
Dear Ms. Tina M. Evans,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Mr. Rodney Schultz, P.E.
Deputy City Engineer, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- EL-BNR

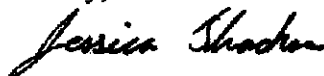
Dear Mr. Rodney Schultz,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Mr. Paul Roman
Public Service Director, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- -EL-BNR

Dear Mr. Paul Roman,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Mr. Michael Beazley
City Administrator, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10-EL-BNR

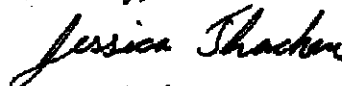
Dear Mr. Michael Beazley,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

The Honorable Tina Skeldon Wozniak
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- -EL-BNR

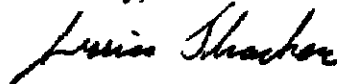
Dear Commissioner Wozniak,

In the above captioned project, American Transmission Systems, Incorporated ("ATSI"), a subsidiary of FirstEnergy Corp., is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the Bayshore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Corp.'s Bay Shore plant located along Bayshore Rd., approximately 0.5 miles West of the Bayshore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

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Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

The Honorable Pete Gerken
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- EL-BNR

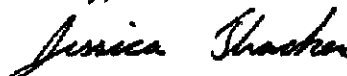
Dear Commissioner Gerken,

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Energy Delivery Transmission and
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FirstEnergy Service Company

Attachment

September 2, 2010

The Honorable Ben Konop
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- EL-BNR

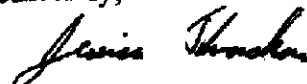
Dear Commissioner Konop,

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Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

September 2, 2010

Mr. Keith G. Earley, P.E., P.S.
Lucas County Engineer
One Government Center Ste 800
Toledo, Ohio 43604

Construction Notice
Bayshore Substation Expansion and 138 kV J-K Bus Tie Project
Case No. 10- -EL-BNR

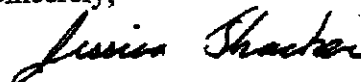
Dear Mr. Keith G. Earley,

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Sincerely,



Jessica Thacker
Associate Engineer
Energy Delivery Transmission and
Substation Design
FirstEnergy Service Company

Attachment

AMERICAN TRANSMISSION SYSTEMS, INCORPORATED

CONSTRUCTION NOTICE

**BAYSHORE SUBSTATION EXPANSION AND 138 kV
J-K BUS TIE PROJECT**

OPSB CASE NO. 10-_____ -EL-BNR

September 2, 2010

PUCO

2010 SEP -3 PM 2:51

RECEIVED-DOCKETING DIV

**American Transmission Systems, Incorporated
76 South Main Street
Akron, Ohio 44308**

**CONSTRUCTION NOTICE
BAY SHORE SUBSTATION EXPANSION AND 138 kV
J-K BUS TIE PROJECT**

The following information is being provided in accordance with the procedures delineated in Ohio Administrative Code Section 4906-11-02: Construction Notice Requirements of the Rules and Regulations of the Ohio Power Siting Board.

4906-11-02 (B): Information Requirements

4906-11-02 (B) (1): Name of the Project

Name of Project: Bay Shore Substation Expansion and 138 kV J-K Bus Tie Project

4906-11-02 (B) (2) (a): Brief Description of Project

In the Bay Shore Substation Expansion and 138 kV J-K Bus Tie Project, American Transmission Systems, Incorporated ("ATSI"), a FirstEnergy Corp. subsidiary, is proposing to install two (2) new steel 138 kV transmission poles, and expand a portion of the existing Bay Shore Substation fence to incorporate a 138 kV J-K Bus Tie. The proposed Project is located adjacent to FirstEnergy Generation Corp.'s Bay Shore Plant located along Bay Shore Rd., approximately 0.5 miles West of the Bay Shore Rd. & N Wynn Rd. intersection in the City of Oregon, Lucas County, Ohio.

The general location of the proposed Project is shown in Exhibit 1, which is a partial copy of the United States Geologic Survey, Lucas County, Ohio and Monroe County Michigan Quad, Map ID 41083-F4. The general layout of the proposed Project is shown in Exhibit 2. The existing Bay Shore Substation encompasses an approximately 451,000 square foot area. A small trapezoid-shaped section of the substation, approximately 78 ft. x 8 ft. (624 sq. ft.), will be expanded to accommodate additional substation equipment. A new section of 138 kV substation buswork, designed as a 138 kV transmission line will be installed to connect the substation bus. The project will also reconfigure a small retention basin to accommodate the new fence line so the basin has the same capacity. The 138 kV line will be supported on

two new poles shown in Exhibit 4. The project installs an additional connection between the substations J & K buses to feed the No. 6 Transformer which powers equipment for Bay Shore Generation Plant's Generator No. 1.

4906-11-02 (B) (2) (b): Construction Notice Requirements

The proposed Project meets the requirements for a Construction Notice because the project is within the types of project defined by Item (1) and (of the Application Requirement Matrix for Electric Power Transmission Lines in Appendix A of 4906-1-01 of the Ohio Administrative Code, which requires the filing of a Construction Notice. This items states:

- (1) Rerouting or extension or new construction of single or multiple circuit electric power transmisson line(s) as follows:
 - (d) Line(s) one hundred twenty-five kV and above, but less than three hundred kV, and not greater than 0.2 miles in length.**

- (8) Constructing additions to existing electric power transmission substation where:
 - (a) There is a twenty percent or less expansion of the fenced area**

The proposed Project includes installing approximately 284 feet of 138 kV transmission line and expanding part of the southern fence line approximately 8 feet to the south to meet the existing fence that follows along Bay Shore Road. This will expand the footprint of the substation by a maximum of approximately 624 square feet. This represents an approximate 0.001 percent expansion of the substation.

4906-11-02 (B) (3): Need for the Project

The proposed Project is needed to facilitate the J-K Tie Bus. Currently, Transformer No. 6 is radially fed off of the J 138 kV Substation Bus and powers equipment for Bay Shore Generation Plant's Generator No. 1. This new J-K bus tie will provide Transformer No. 6 with a source of backup power if anything should ever disrupt the power supply from either bus and increase reliability for Bay Shore Generation Plant.

4906-11-02 (B) (4): Construction Schedule

Construction on the proposed Project is proposed to begin as early as October 15, 2010. Construction on the proposed Project is expected to be completed by May 31, 2011.

4906-11-02 (B) (5): Estimated Costs

The following is the estimated capital cost for the Project:

Estimated Cost	\$ 210,300
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4906-11-02 (B) (6): Operating Characteristics

The J-K 138 kV Bus Tie will be designed for 138 kV operation. The J-K 138 kV Bus Tie will be normally closed and will have both the J and K 138 kV buses feeding Transformer No. 6. If there is ever a fault on one of the buses, the bus tie will increase reliability by having the flexibility to feed Transformer No. 6 entirely from either bus.

4906-11-02 (B) (7): Area Map

Exhibit No. 1 depicts the general location of the project site. This exhibit provides a partial copy of the United States Geologic Survey, Lucas County, Ohio and Monroe County, Michigan Quad Map ID 41083-F4. To locate and view the project site from Columbus, Ohio, travel north on OH-315 approximately 22 miles and turn left at US-23N/Columbus Pike. Continue to follow US-23N for approximately 56 miles. Take the ramp to OH-103 E/US-23 N and turn right to follow US-23 N for approximately 16 miles. Turn right onto Midblock Upas and go approximately 0.4 miles then make a left onto W South St. and go 0.3 miles. Turn right onto US-23 N/S County Line St. and continue to follow US-23 for approximately 22 miles. Turn left at US-20 W/US-23 N/Fremont Pike and go approximately 3 miles. Take exit 81A to merge onto OH-420 N toward I-280/Toledo for 2.4 miles and continue to follow I-280 N for approximately 9.5 miles. Take exit 9 for Front St. towards OH-65 and keep right at the fork, following signs for Front St. N and merge onto Front St. for approximately 2 miles. Turn right at Millard Ave. and follow for 0.8 miles and turn left at Otter Creek

Rd. and follow for approximately 2 miles. Continue onto Bay Shore Rd. for approximately 0.4 miles and the project site will be on the left.

4906-11-02 (B) (8): Properties List

The Bay Shore substation is located on The Toledo Edison Company ("Toledo Edison") property. The proposed expanded fence and two poles will be located on FirstEnergy Generation Corp. ("FE GENCO") property. ATSI, Toledo Edison, and FE GENCO are subsidiaries of FirstEnergy Corp. and the necessary easements will be obtained for ATSI to construct the project.

4906-11-02 (C): Documentation of Construction Notice Transmittal

This Construction Notice is being provided concurrently to the following officials of the City of Oregon and Lucas County, Ohio. Copies of the transmittal letters to these officials have been included with the transmittal letter submitting this Construction Notice to the Ohio Power Siting Board.

City of Oregon

The Honorable Mike Seferian
Mayor, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Mr. Rodney Schultz, P.E.
Deputy City Engineer, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Mr. Clint Wasserman
President, City of Oregon City Council
5330 Seaman Road
Oregon, Ohio 43616

Mr. Paul Roman
Public Service Director, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Ms. Tina M. Evans
Clerk of Council, City of Oregon
City Council
5330 Seaman Road
Oregon, Ohio 43616

Mr. Michael Beazley
City Administrator, City of Oregon
5330 Seaman Road
Oregon, Ohio 43616

Lucas County

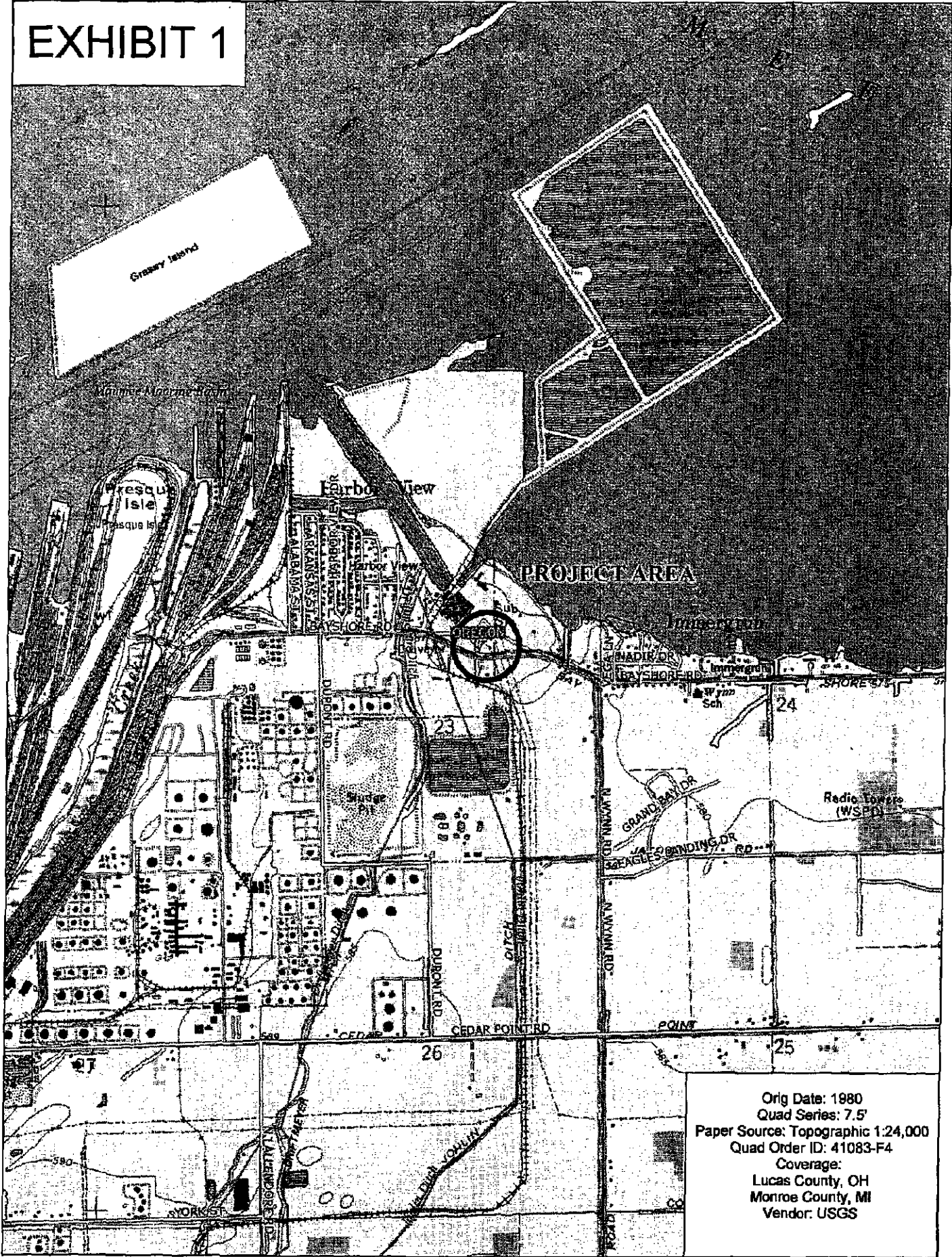
The Honorable Tina Skeldon Wozniak
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

The Honorable Ben Konop
Lucas County Commissioner
One Government Center Ste 800
Toledo, Ohio 43604

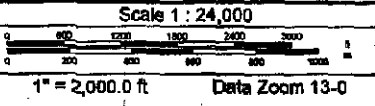
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One Government Center Ste 800
Toledo, Ohio 43604

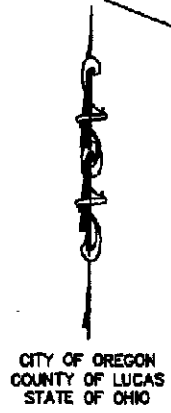
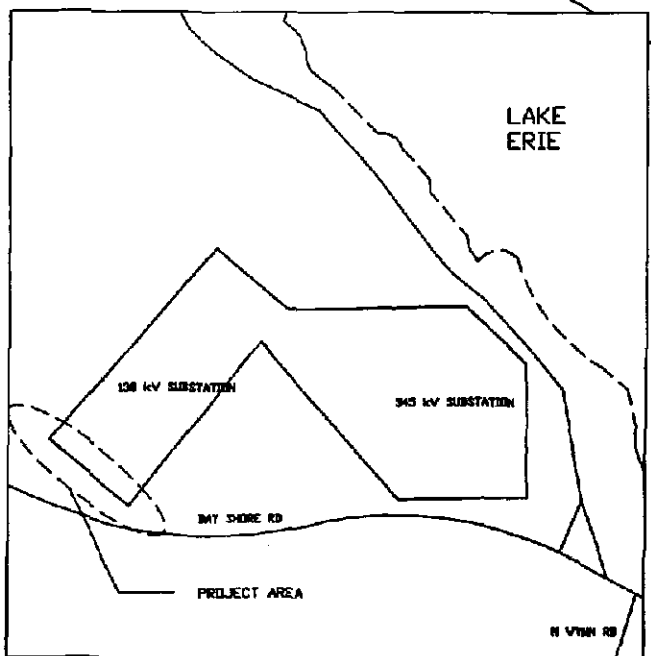
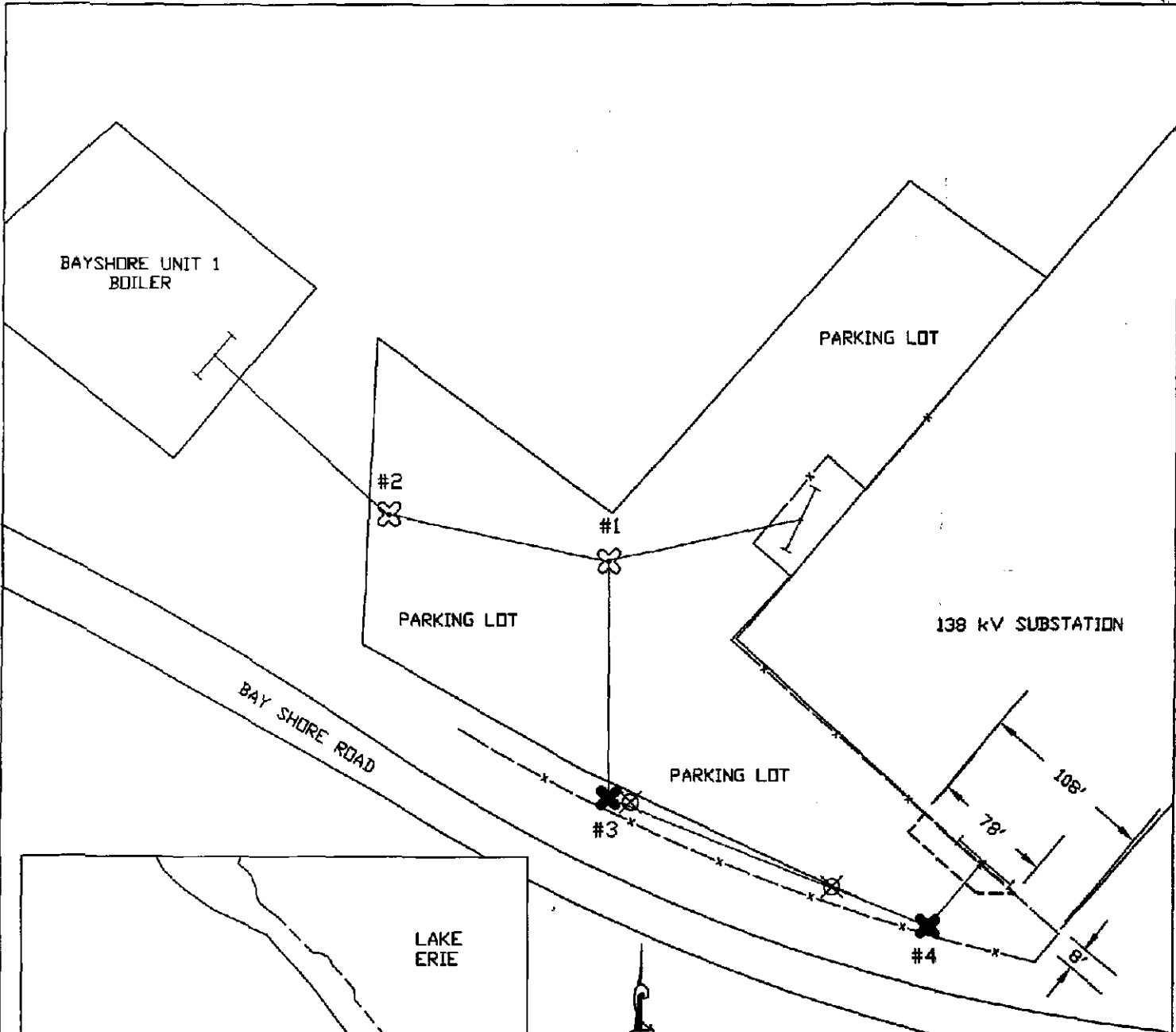
Mr. Keith G. Earley, P.E., P.S.
Lucas County Engineer
One Government Center Ste 800
Toledo, Ohio 43604

EXHIBIT 1



Orig Date: 1980
 Quad Series: 7.5'
 Paper Source: Topographic 1:24,000
 Quad Order ID: 41083-F4
 Coverage:
 Lucas County, OH
 Monroe County, MI
 Vendor: USGS





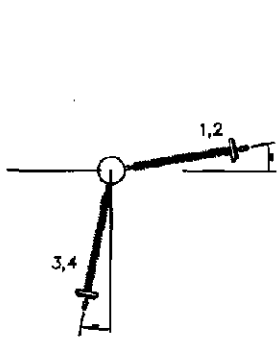
- LEGEND**
- ⊗ EXISTING POLE TO REMAIN
 - ⊠ NEW POLE
 - ⊗ LIGHT TO BE REMOVED
 - SUBSTATION EXPANSION
 - x-x EXISTING FENCE

ATSI.
 American Transmission Systems, Inc.
 a subsidiary of FirstEnergy Corp.

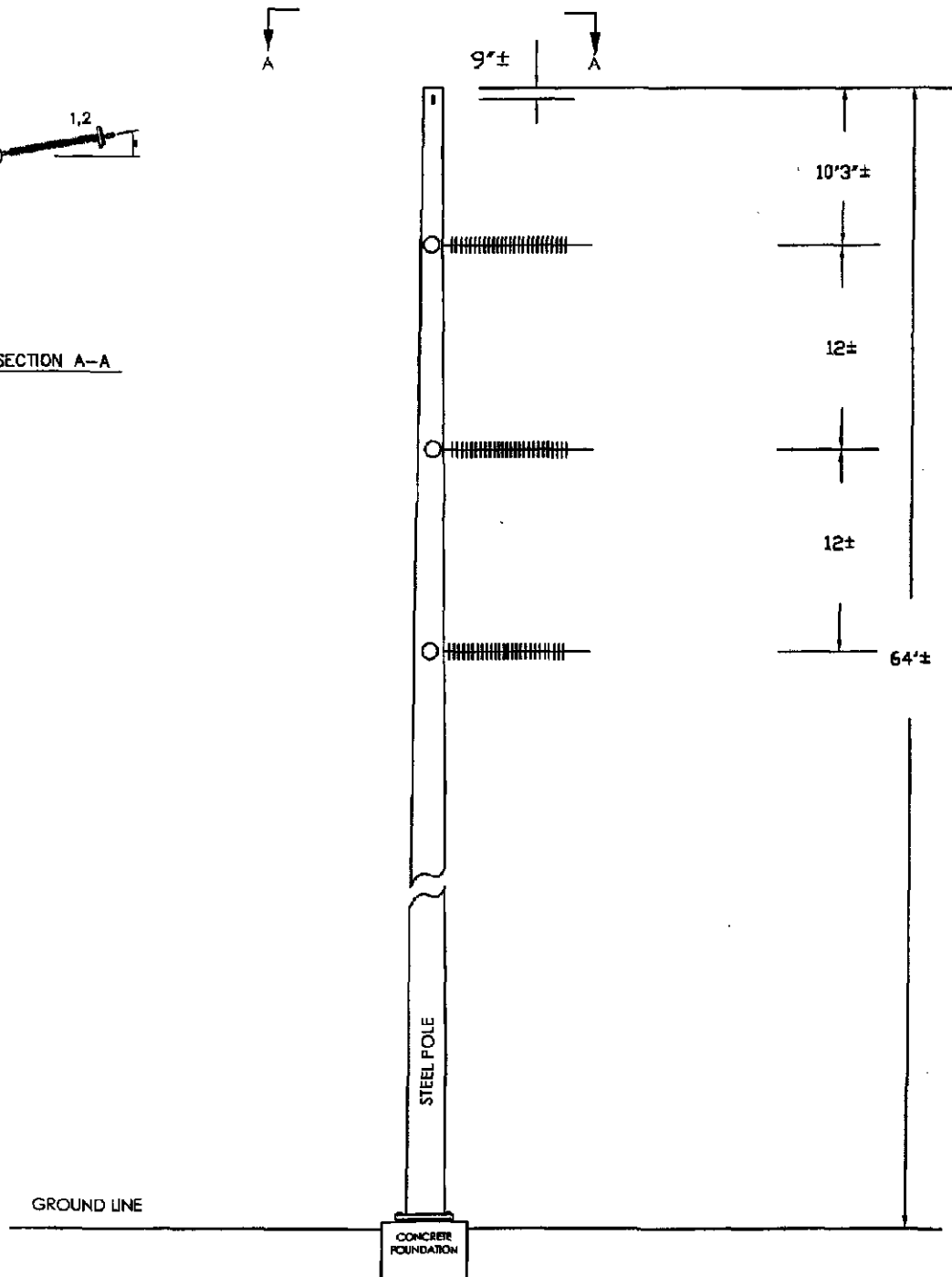
BAYSHORE SUBSTATION
 EXPANSION AND 138 kV J-K
 BUS TIE PROJECT

GENERAL LAYOUT

EXHIBIT 2



SECTION A-A



ATSI.

American Transmission Systems, Inc.
a subsidiary of American Electric Power

BAYSHORE SUBSTATION EXPANSION AND
 138 kV J-K BUS TIE PROJECT
 STEEL POLE CORNER DEAD END

EXHIBIT 3

** NOT TO SCALE